

## Product datasheet for **RN207770**

### **Gpnmb (NM\_133298) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpnmb (NM_133298) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gpnmb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN207770 representing NM\_133298  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGTCTCTGCGGGTCTCGTATTCTGCTGCTGGCTGCAGGACTGCCGCTCCAGGCGGCCAAGC  
 GGTTCCGTGATGTGCTGGGCCATGAGCAGTATCCGGATCACATGAGGGAGAAACAACCAATTACGTGGCTG  
 GTCTTCAGATGAAAATGAATGGGATGAACAGCTGTATCCAGTGTGGAGGAGGGGAGAGGGCAGATGGAAG  
 GACTCCTGGGAAGGAGGCCGTGTGCAGGCAGCCCTAACCAAGTATTACCGGCCCTTGGTGGGTTCCAATA  
 TCACCTTCGTAGTGAACCTGGTGTCCCCAGATGCCAGAAGGAAGATGCCAACGGCAATATCGTCTATGA  
 GAGGAAGTGCAGAAGTATTTGGAGCTGGCTTCTGACCCGTATGTCTACAAGTGGACCACAGGGGCAGAC  
 GATGAGGACTGGGAAGACAACACCAGCCAAGGCCAGCACCTCAGGTTCCCGACGGGAAGCCCTCCCTC  
 GCCCCACGGACGAAGAAATGGAACCTTCGTCTACGTCTCCACACACTGGTCAATTTTCAAAGCT  
 GGGTCAGTGTTCAGCACGAGTTTCTATAAACACAGTCAACTTGACAGTTGGCCCTCAGGTCATGGAAGTG  
 ATTGTCTTTCGAAGACACGGCCGGGCATACATTCATCTCCAAAGTGAAAGACGTGTATGTGATAACAG  
 ATCAGATCCCTATATTCGTGACCATGTACCAGAAGAATGACCGGAACCTCGTCTGTGAAACCTTCCTCAG  
 AGACCTCCCCATTTTCTCGATGTCTCATTACAGATCCAGTCAATTCCTCAACTACTCTGCCATTTCC  
 TACAAGTGAACCTTTGGGACAACACTGGCCTGTTTGTCTCCAACAATCACACTTTGAATCACACGTATG  
 TGCTCAATGGAACCTTCAACTTTAACCTCACCGTGAACTGCAGTGCCGGGACCATGCCCTCACCCAC  
 ACCTTCGCCTTCTTCTCGACTTCTCCTTCGCCTGCATCTTCGCCTTACCCACATTATCAACACCTAGT  
 CCCTCTTAATGCCTACTGGCTACAATCCATGGAGCTGAGTGACATTTCCAATGAAAACGCGCAATAA  
 ACAGATATGGTTACTTTCAGAGCCACCATCACAATTGTAGATGGAATCCTAGAAGTCAACATCATCCAGGT  
 AGCAGATGTCCCAATCCCACTGCAGCCTGACAACACTCACTGATGGACTTCATTGTGACCTGCAAAGGG  
 GCCACTCCACGGAAGCCTGTACGATCATCTGACCCCACTGCCAGATCGCCAGAACAGGGTGTGCA  
 GCCCGGTGGCTGTGGATGAGCTGTGCCTCCTGTCCGTGAGGAGAGCCTTCAATGGGTCCGGCACGTACTG  
 TGTGAATTTCACTCTGGGAGACGATGCAAGCCTGGCCCTCACCAGCGCCCTGATCTCTATCCCTGGCAAA  
 GACCTAGGCTCCCCTCTGAGAACAGTGAATGGTGTCTGATCTCCATTGGCTGCCTGGCCATGTTTGTCA  
 CCATGGTTACCATCTTGCTGTACAAAAACACAAGACGTACAAGCCAATAGGAACTGCACCAGGAACGT  
 GGTC AAGGGCAAAGGCCGTGAGTGT TTTTCTCAGCCATGCAAAAAGCCCGTTCTCCCGAGGAGACCGGGAG  
 AAGGATCCACTGCTCCAGGACAAGCCATGGATGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_133298  
**Insert Size:** 1719 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_133298.1](#), [NP\\_579832.1](#)

**RefSeq Size:** 2320 bp

**RefSeq ORF:** 1719 bp

**Locus ID:** 113955

**Cytogenetics:** 4q24

**Gene Summary:** may play a role in bone matrix production and mineralization; overexpressed in the osteopetrosis mutant op rat [RGD, Feb 2006]